

IN THE CLAIMS:

None of the claims have been amended herein. All of the pending claims 1 through 6 are presented below. This listing of claims will replace all prior versions and listings of claims in the application. Please enter these claims as previously amended.

**Listing of Claims:**

1. (Previously presented) An assembly method for a Chip On Board semiconductor device having a semiconductor die having a heat sink cap abutting a portion of a top surface of a substrate including:  
placing a compliant adhesive-filled gel silicone elastomer between a portion of an upper surface of the semiconductor die and a portion of a lower surface of the heat sink cap;  
pressing the semiconductor die into the heat sink cap to engage the semiconductor die and heat sink cap in compliant removable adhesion and for causing the edge of the heat sink cap to abut the substrate; and  
injecting an encapsulant into the heat sink cap engaging at least interior portions of the heat sink cap, at least portions of the semiconductor die, at least portions of the top surface of the substrate, and at least portions of the compliant adhesive-filled gel silicone elastomer.
2. (Previously presented) The method of claim 1, wherein the compliant adhesive-filled gel silicone elastomer includes a cross-linked silicone.

3. (Previously presented) An assembly method for a Chip On Board semiconductor device having a semiconductor die contained within a portion of a cap having a lower edge abutting a portion of a top surface of a substrate comprising:  
positioning a compliant adhesive-filled gel silicone elastomer between the semiconductor die and the cap;  
pressing the semiconductor die into the cap causing removable adhesion of the semiconductor die and the cap and causing the lower edge of the cap to abut the substrate; and  
injecting an encapsulant into the cap engaging at least interior portions of the cap, at least portions of the semiconductor die, at least portions of the top surface of the substrate, and at least portions of the compliant adhesive-filled gel silicone elastomer.

4. (Previously presented) The method of claim 3, wherein the adhesive-filled gel silicone elastomer includes a metal-filled cross-linked silicone.

5. (Previously presented) A method for assembling a Chip On Board semiconductor device on a substrate, said Chip On Board semiconductor device having a semiconductor die and a heat sink cap abutting a portion of a top surface of a substrate including:  
providing a compliant adhesive-filled gel silicone elastomer between a portion of an upper surface of the semiconductor die and a portion of a lower surface of the heat sink cap for engaging the semiconductor die and heat sink cap in compliant removable adhesion for abutting the edge of the heat sink cap to the substrate; and  
placing an encapsulant into the heat sink cap for engaging interior portions of the heat sink cap, portions of the semiconductor die, portions of the top surface of the substrate, and portions of the compliant adhesive-filled gel silicone elastomer.

6. (Previously presented) The method of claim 5, wherein the compliant adhesive-filled gel silicone elastomer includes a cross-linked silicone.